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- (71) Applicant (for all designated States except US): STICHT-ING VOOR DE TECHNISCHE WETENSCHAPPEN [NL/NL]; Van Vollenhovenlaan 661, NL-3527 JP Utrecht (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE JONG, Nicolaas [NL/NL]; Duindoorn 71, NL-2923 EC Krimpen aan de Ijssel (NL). BOUAKAZ, Ayache [DZ/NL]; Schieweg 210D, NL-3038 BN Rotterdam (NL).
- (74) Agent: CHARIG, Raymond; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).

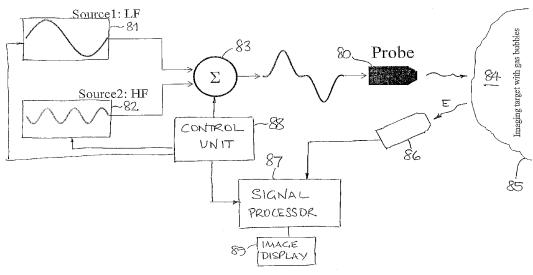
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### (54) Title: CONTRAST DUAL FREQUENCY IMAGING



(57) Abstract: A method and apparatus for ultrasound imaging which uses dual frequency excitation of a target. The target is simultaneously irradiated with a relatively low frequency ultrasound conditioning signal and a relatively high frequency ultrasound detection signal. The conditioning signal modulates a physical property (e.g. size) of first structures (e.g. gas bubbles) within the target, which modulation causes changes in the echo signal response of the first structures to the detection signal. A signal processor is adapted to process the received echo signals to detect the presence of the first structures by virtue of a first magnitude of detection signal echo arising from periods when the conditioning signal is in a first phase and a second, different, magnitude of detection signal echo arising from periods when the conditioning signal is in a second phase.

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